

Wisconsin Department of Transportation

September 14, 2006

Division of Business Management Bureau of Human Resource Services 4802 Sheboygan Ave. P O Box 7915 Madison, WI 53707-7915

Telephone: 608-266-2615

Teletypewriter (TTY): 608-267-0259

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Dear Applicant:

Thank you for your interest in the Civil Engineer-Transportation Advanced position within the Division of Transportation System Development. This exam is for a position that is responsible to serve as the Traffic Signal Systems Engineer. The current vacancy will work out of the Central Office-Hill Farms Madison office and the register created by this vacancy will be used to fill other vacancies as they occur statewide.

The first step in the selection process will be an evaluation of your experience by a panel of experts who are knowledgeable of the requirements for the position. For this evaluation, you will need to complete the attached exam. The exam has been designed to obtain specific, factual information about certain aspects of your experience that are particularly important to this position.

The evaluation of your qualifications for this position will be based solely on your response to the exam. The evaluation panel will NOT have access to your state application form or any other materials you may submit with your application.

After the evaluation of all exams, and as vacancies occur, those candidates who appear most qualified for the position will be invited to participate in the next step of the selection process. Your ranking will vary based on the number of applicants selecting the same employment areas as you select.

Refer to the attached Instruction sheet for further information on applying for this position. PLEASE NOTE: If you send the files electronically, make sure you scan the state application, veteran form, instruction sheet and affidavit sheet that requires your signature and place them in **pdf format.** Your response to the exam questions can be sent in a Word document or scanned like the other documents. **Or**, you may print out and mail all the application materials to:

Mary Schneider; DOT Bureau of Human Resource Services, Room 410; P.O. Box 7915; Madison, WI 53707-7915, to be received **by 4:30 p.m., October 2, 2006**. Late materials will not be accepted if it would cause a delay in the scoring process. If you have any questions, please call me at (608) 266-7536.

Sincerely,

Jeff Fischer Human Resources Specialist Enc.

WISCONSIN DEPARTMENT OF TRANSPORTATION

CIVIL ENGINEER - TRANSPORTATION ADVANCED TRAFFIC SIGNAL SYSTEMS ENGINEER Job Announcement Code 0603048 INSTRUCTION SHEET

The following exam has been designed to obtain specific, factual information about those aspects of your experience that are particularly important to this position. These experiences may include part-time or full-time employment, internships, volunteer activities, or relevant academic course work.

INSTRUCTIONS TO THE APPLICANT:

1. Please complete the attached exam questions by keeping in mind the most relevant example of past achievements in your response.

2. DO NOT PROVIDE AN EXISTING RESUME OR TRANSCRIPT IN LIEU OF THIS EXAM.

- 3. Your name should appear only on the state application form, affidavit sheet, and the bottom of this page.
- 4. **Return** this Instruction sheet, the Employment Requirement Affidavit, the Application for State Employment (OSER-DMRS-38) that can be attained at http://oser.state.wi.us/category.asp?linkcatid=392&linkid=28, the Veteran Preference Supplement form (if applicable), and your responses to the examination by 4:30 p.m. October 2, 2006. You may choose to send the materials via the mail or electronically.
- 5. PLEASE NOTE: if you send the files electronically, send them to mary.schneider@dot.state.wi.us and make sure you scan the state application, veterans form, marginature and place them in pdf format. Your responses to the exam questions can be completed in a Word document or scanned like the other documents. Or, you may print out and mail all the application materials to: Mary Schneider; DOT Bureau of Human Resource Services, Room 410; P.O. Box 7915; Madison, WI 53707-7915. Late materials will not be accepted if it would cause a delay in the scoring process.

PLEASE READ AND SIGN THE FOLLOWING STATEMENT AND RETURN WITH APPLICATION MATERIALS.

I understand that this questionnaire is a test and that the practice or attempt to practice any deception or fraud will result in my application being withdrawn or removal from the position if I am hired. I certify that all information provided herein is true to the best of my knowledge, that I prepared the responses to this checklist without assistance other than typing or reproduction, and that the information can be verified if necessary through persons I have named as references on my application or by other persons whom I can name as references if requested.

SIGNATURE:	DATE:
NAME (Print):	SOCIAL SECURITY #:
ADDRESS:	HOME PHONE: ()
CITY, STATE, ZIP:	WORK PHONE: ()

CIVIL ENGINEER - TRANSPORTATION ADVANCED TRAFFIC SIGNAL SYSTEMS ENGINEER GEOGRAPHIC LOCATION PREFERENCE SHEET

Listed below are the locations in which employment may be available. Please indicate the location(s) for which you would like to receive employment consideration by placing a checkmark in the space provided; check all those that you would consider.

Employment Areas (Check ALL that you will accept)			
	Southwest Region, Madison East Southeast Region, Waukesha North Central Region, Wisconsin Rapids Northwest Region, Eau Claire Central Office-Hill Farms, Madison West		Southwest Region, La Crosse Northeast Region, Green Bay North Central Region, Rhinelander Northwest Region, Superior Northwest Region, Spooner
	EMPLOYMENT R	REQ	UIREMENT AFFIDAVIT
Chec	ck <u>ALL</u> the appropriate boxes below for th	e qua	alifications that you possess:
	Current registration as a Professional Engineer (P.E.) in the state of Wisconsin.		
	Certification as an Engineer-in-Training (E.I.T.) in the state of Wisconsin.		
	Have graduated from a recognized college or university with a degree in a related engineering field such as civil or environmental engineering or have equivalent professional training and practical experience so as to be deemed a professional engineer as defined in Department of Regulation and Licensing per s. 443.01, Wis. Stats and also be deemed qualified to engage in professional engineering practice as determined by the Department of Regulation and Licensing per s.443.04 or 443.05, Wis. Stats.		
AFF	FIDAVIT: PLEASE READ AND SIG	SN T	THE FOLLOWING STATEMENT
	tify that the information provided above in ap to the best of my knowledge, and that the info	-	tion for the Civil Engineer Transportation – Advanced is ion can be verified if necessary.
SIGN	JATURE:		DATE:

EXAM QUESTIONS

Your response to the following exam questions will additionally be rated for written communication skills.

Question number 1.

Describe the breadth and scope of your experience in designing and/or conducting reviews of transportation facilities for traffic <u>operational</u> and safety purposes. Be sure to emphasize how you relate safety engineering considerations to signal operations design considerations. Describe your experience in using national and WI Dept. of Transportation or comparable state guidelines to integrate traffic operations concepts into the design process.

Question number 2.

Describe your experience (the process) in reviewing a policy or procedure for either development or modification of a traffic operations system and detail your role (be specific if you were part of a team process) from the stage of problem identification through creation of the policy or procedure to implementation of changes. Be sure to describe the nature of the policy/procedure and explain the impact to the organization.

Question number 3.

Describe your experience in using the Wisconsin Manual on Uniform Traffic Control Devices (MUTCD), specifically Part 4 of the MUTCD-Highway Traffic Signals, in design work or other work processes, and/or providing expertise in the form of counsel or technical knowledge to others. Be sure to describe the complexity of the traffic issue for which the manual was used.

Ouestion number 4.

Describe your experience in traffic signal design. Be sure to elaborate on the complexity of the design and the hardware you worked into your design as well as the software used to create the design.

DON'T FORGET TO <u>SEND</u> IN A COMPLETED COPY OF THE <u>STATE APPLICATION FORM</u> WITH ALL YOUR OTHER EXAM MATERIALS

Visit http://oser.state.wi.us/category.asp?linkcatid=392&linkid=28 to obtain a copy of the State Application form and Veteran Preference Supplement form (if applicable).

DEADLINE: 4:30 p.m., October 2, 2006

<u>Summary of Position Description of Current Vacancy:</u>

Provide extensive support and expertise necessary for the development of standards and guidelines for the selection, implementation and evaluation of projects to enhance highway safety, operations, efficiency and air quality relating to the statewide transportation improvement and operations programs. Review and approve Division of Transportation System Development (DTSD) requests for traffic control signal installations and traffic regulations. Provide statewide expertise on traffic control signals and systems design and operation. Function as the traffic engineering liaison for assigned Regional Operations Sections. Function as a resource for Bureau of Highway Operations (BHO) involvement with the development of laws and rules with Traffic Engineering and highway safety implications. Administer the regulation of speed limits and coordinate speed management programs on a statewide basis. Represent the State Traffic Engineer or BHO Director as directed.